

Calcula y representa gráficamente las raíces de un polinomio. Tomado del capítulo 5, pag 90, Mathematica al 99%.

```

DibujaRaices[polinomio_, var_] :=
  Module[{puntos = {}, lista = {}, raiz = 0},
    [módulo]
    lista = var /. NSolve[polinomio == 0, var];
    [resuelve numéricamente]
    While[lista != {}, raiz = N[First[lista]];
      [mientras] [... primero]
      lista = Delete[lista, 1];
      [elimina]
      AppendTo[puntos, {Re[raiz], Im[raiz]}]];
      [añade al final] [parte real] [parte imaginaria]
    Print[puntos];
    [describe]
  ListPlot[puntos, PlotStyle -> PointSize[0.02]]
  [representación de lista] [estilo de repre...] [tamaño de punto]

```

```

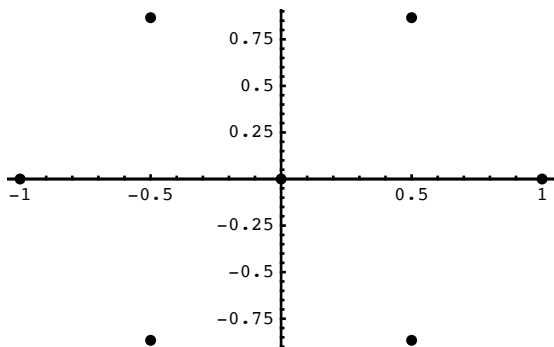
DibujaRaices[x7 - x, x]

```

```

{{-1., 0}, {-0.5, -0.866025}, {-0.5, 0.866025},
{0., 0}, {0.5, -0.866025}, {0.5, 0.866025}, {1., 0}}

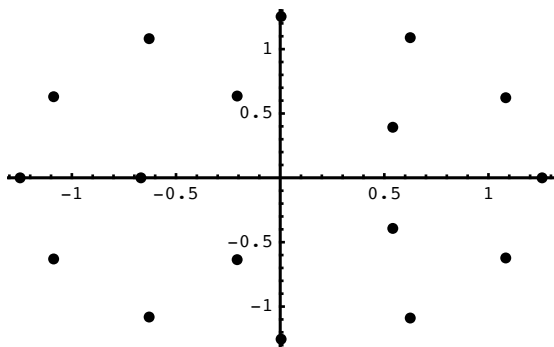
```



- Graphics -

DibujaRaices $[x^{17} - 15x^5 - 2, x]$

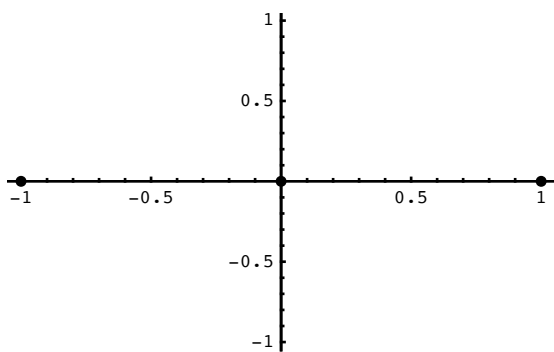
```
{{-1.24848, 0}, {-1.08752, -0.630321}, {-1.08752, 0.630321}, {-0.668396, 0},
{-0.629009, -1.08138}, {-0.629009, 1.08138}, {-0.206467, -0.635573},
{-0.206467, 0.635573}, {0.00449579, -1.25333}, {0.00449579, 1.25333},
{0.540664, -0.392899}, {0.540664, 0.392899}, {0.624494, -1.08917},
{0.624494, 1.08917}, {1.08302, -0.622501}, {1.08302, 0.622501}, {1.25751, 0}}
```



- Graphics -

DibujaRaices $[x^3 - x, x]$

```
{{-1., 0}, {0., 0}, {1., 0}}
```



- Graphics -